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ABSTRACT

This publication contains statewide standards for the heavy equipment mechanic program in Georgia. The standards are divided into 12 categories: foundations (philosophy, purpose, goals, program objectives, availability, evaluation); admissions (admission requirements, provisional admission requirements, recruitment, evaluation and planning); program structure (curriculum design, program numbering system, program consistency, exit points, credentials, course code, course consistency, course sequence, electives, course transferability); program evaluation and planning (program evaluation; program planning; enrollment, graduation, and placement levels; attrition levels; student performance); instructional program (course content; course objectives; course instruction; occupation-based instruction; evaluation of students; grading system; laboratory management; equipment, supplies, and materials; physical facility); academic skills (academic requirements); employability skills (job acquisition, job retention and advancement); staff (faculty qualifications and responsibilities); advisory committee (function, membership, meetings); special needs (commitment); equity (commitment); and health and safety (commitment). Each standard consists of these components: standard statement, explanatory comment, and evaluative criteria. (YLB)

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HEAVY EQUIPMENT MECHANIC PROGRAM STANDARDS

Developed and Produced
Under Contractual Agreement with

Georgia Board of
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HEAVY EQUIPMENT MECHANIC PROGRAM STANDARDS

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ACKNOWLEDGEMENTS

The development of Heavy Equipment Mechanic program standards is a significant step for technical education and economic development in Georgia. These standards represent a statewide commitment to provide consistent, quality technical education, to equip our graduates with the background and skills necessary to meet their individual occupational needs, and to meet the currently expanding needs of the Georgia employment market.

Many people have contributed time, effort, and expertise to the standards development project. The Georgia Board of Technical and Adult Education, the Board's Standards Committee, the standards development committee, and the project staff have worked diligently to make the establishment of these standards a reality. Robert Mabry and John Lloyd of the Georgia Department of Technical and Adult Education have provided initiative and direction for the project. Russell Meade contributed significantly to the initial effort to develop standards for all programs. Patt Stonehouse, Director of Instructional Services, has provided invaluable assistance in planning and monitoring the project.

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We extend sincere thanks to each member of the Board's Standards Committee below.

Judy Hulsey
Carrollton

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Savannah

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Walter Sessoms, Chairman
Atlanta

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Without the close cooperation of the heavy equipment mechanics industry in Georgia, this program standard would not have been possible. We recognize and thank each member of the Heavy Equipment Mechanic program State Technical Committee for their invaluable contribution to the development of the program standards.

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South Georgia Technical Institute

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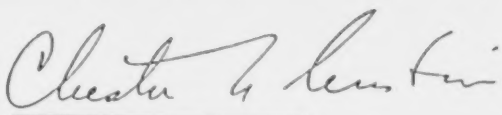

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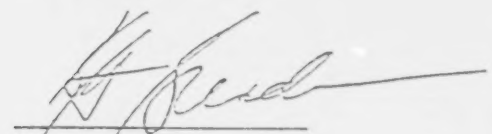

Ken Breeden
Commissioner, Georgia Department of Technical and Adult Education

HEAVY EQUIPMENT MECHANIC PROGRAM STANDARDS

TABLE OF CONTENTS

FOUNDATIONS

(Philosophy) 56-01-01
(Purpose) 56-01-02
(Goals) 56-01-03
(Program Objectives) 56-01-04
(Availability) 56-01-05
(Evaluation) 56-01-06

ADMISSIONS

(Admission Requirements) 56-02-01
(Provisional Admission Requirements) 56-02-02
(Recruitment) 56-02-03
(Evaluation and Planning) 56-02-04

PROGRAM STRUCTURE

(Curriculum Design) 56-03-01
(Program Numbering System) 56-03-02
(Program Consistency) 56-03-03
(Exit Points) 56-03-04
(Credentials) 56-03-05
(Course Code) 56-03-06
(Course Consistency) 56-03-07
(Course Sequence) 56-03-08
(Electives) 56-03-09
(Course Transferability) 56-03-10

PROGRAM EVALUATION AND PLANNING

(Program Evaluation) 56-04-01
(Program Planning) 56-04-02
(Enrollment, Graduation, and Placement Levels) 56-04-03
(Attrition Levels) 56-04-04
(Student Performance) 56-04-05

INSTRUCTIONAL PROGRAM

(Course Content) 56-05-01
(Course Objectives) 56-05-02
(Course Instruction) 56-05-03
(Occupation-Based Instruction) 56-05-04
(Evaluation of Students) 56-05-05
(Grading System) 56-05-06
(Laboratory Management) 56-05-07
(Live Work) 56-05-08
(Equipment, Supplies, and Materials) 56-05-09
(Physical Facility) 56-05-10

TABLE OF CONTENTS (Continued)

ACADEMIC SKILLS
(Academic Requirements) 56-06-01

EMPLOYABILITY SKILLS
(Job Acquisition) 56-07-01
(Job Retention and Advancement) 56-07-02

STAFF
(Faculty Qualifications and Responsibilities) 56-08-01

ADVISORY COMMITTEE
(Function) 56-09-01
(Membership) 56-09-02
(Meetings) 56-09-03

SPECIAL NEEDS
(Commitment) 56-10-01

EQUITY
(Commitment) 56-11-01

HEALTH AND SAFETY
(Commitment) 56-12-01

HEAVY EQUIPMENT MECHANIC

FOUNDATIONS
(Philosophy)

Standard Statement

A philosophy statement is developed expressing the beliefs and values that govern the content and conduct of the Heavy Equipment Mechanic program.

Explanatory Comment

A statewide program philosophy statement is developed and provided for the Heavy Equipment Mechanic program. The statewide philosophy statement may be augmented at the local level so that the unique circumstances of the community may be accommodated.

The Heavy Equipment Mechanic program philosophy statement expresses the fundamental educational and occupational principles that guide the instructional process.

Evaluative Criteria

The Heavy Equipment Mechanic program has a clearly defined, written philosophy statement that is reviewed by the program faculty, the administration, and the program advisory committee.

Any addition to the Heavy Equipment Mechanic program philosophy statement is developed by the program faculty, the administration, and the program advisory committee.

The philosophy of the Heavy Equipment Mechanic program is in accordance with the philosophy of the Georgia Board of Technical and Adult Education and reflects the beliefs, values, and attitudes of the institution, the instructional field, the community, and the employment market.

The written philosophy of the Heavy Equipment Mechanic program is in accordance with generally accepted heavy equipment mechanics principles and practices.

The philosophy of the Heavy Equipment Mechanic program determines the unique role of the program in meeting the technical educational needs of the students, the community, and the employment market.

The philosophy of the Heavy Equipment Mechanic program reflects a desire to achieve educational excellence.

HEAVY EQUIPMENT MECHANIC

The philosophy of the Heavy Equipment Mechanic program reflects a commitment to meet the needs of business and industry.

The philosophy of the Heavy Equipment Mechanic program includes a nondiscrimination statement pertaining to race, color, national origin, religion, sex, age, handicapping condition, academic disadvantage, and economic disadvantage.

The philosophy statement of the Heavy Equipment Mechanic program is approved by the administration of the institution.

HEAVY EQUIPMENT MECHANIC

PHILOSOPHY

The basic beliefs, attitudes, and concepts that are the foundation of the Heavy Equipment Mechanic program are expressed in the following statements.

Heavy Equipment Mechanic is a program of study which is compatible with the policies of the Georgia Board of Technical and Adult Education and encourages each Heavy Equipment Mechanic program student to benefit and contribute as a partner in the economic development and stability of Georgia. The philosophy of the Heavy Equipment Mechanic program is founded on the value attributed to individual students, the heavy equipment mechanics profession, and technical education.

The Heavy Equipment Mechanic program of study is consistent with the philosophy and purpose of the institution. The program provides academic foundations in communications, mathematics, and human relations, as well as technical fundamentals. Program graduates are well grounded in the fundamentals of heavy equipment mechanics theory and application and are prepared for employment and subsequent upward mobility.

The Heavy Equipment Mechanic program provides the student with the necessary knowledge and skills to adapt to a variety of positions in the rapidly changing heavy equipment mechanics field. Important attributes for success of program graduates are critical thinking, problem solving, human relations skills, and the ability to apply technology to work requirements.

The program structure acknowledges individual differences and provides opportunities for students to seek fulfillment of their educational goals. The program does not discriminate on the basis of race, color, national origin, religion, sex, handicapping condition, academic disadvantage, or economic disadvantage.

To assist each student to attain his or her respective potential within the program, both the instructor and the student incur an obligation in the learning process. The instructor is a manager of instructional resources and organizes instruction in a manner which promotes learning. The student assumes responsibility for learning by actively participating in the learning process.

This is a dynamic field which requires attention to current curriculum and up-to-date instructional equipment. The Heavy Equipment Mechanic program must promote the concept of change as the technology evolves. The need for nurturing the spirit of involvement and lifelong learning is paramount in the heavy equipment mechanics field.

HEAVY EQUIPMENT MECHANIC

FOUNDATIONS
(Purpose)

Standard Statement

A purpose statement delineating the instructional services which the Heavy Equipment Mechanic program provides is developed and implemented.

Explanatory Comment

A statewide purpose statement is developed and provided for the Heavy Equipment Mechanic program. The statewide purpose statement may be augmented at the local level so that the unique circumstances of the community may be accommodated.

A major purpose of the Heavy Equipment Mechanic program is to meet community and employment market needs for education in heavy equipment mechanics.

Evaluative Criteria

The Heavy Equipment Mechanic program has a clearly defined, written purpose statement that is reviewed by the program faculty, the administration, and the program advisory committee.

Any addition to the Heavy Equipment Mechanic program purpose statement is developed by the program faculty, the administration, and the program advisory committee.

The purpose of the Heavy Equipment Mechanic program is in accordance with the purpose of the Georgia Board of Technical and Adult Education and the institution.

The purpose of the Heavy Equipment Mechanic program reflects the values and beliefs expressed in the program philosophy.

The purpose of the Heavy Equipment Mechanic program includes a nondiscrimination statement pertaining to race, color, national origin, religion, sex, age, handicapping condition, academic disadvantage, and economic disadvantage.

The purpose statement of the Heavy Equipment Mechanic program is approved by the administration of the institution.

HEAVY EQUIPMENT MECHANIC

PURPOSE

The purpose of the Heavy Equipment Mechanic program is to provide educational opportunities to individuals that will enable them to obtain the knowledge, skills, and attitudes necessary to succeed in the field of heavy equipment mechanics.

The Heavy Equipment Mechanic program provides educational opportunities regardless of race, color, national origin, religion, sex, age, handicapping condition, academic disadvantage, or economic disadvantage.

The Heavy Equipment Mechanic program is intended to produce graduates who are prepared for employment as entry-level heavy equipment mechanics. Program graduates are to be competent in the general areas of communications, math, and interpersonal relations. Program graduates are to be competent in the technical areas of heavy equipment maintenance and repair.

HEAVY EQUIPMENT MECHANIC

FOUNDATIONS
(Goals)

Standard Statement

A program goals statement focuses the efforts of the Heavy Equipment Mechanic program.

Explanatory Comment

A statewide goals statement is developed and provided for the Heavy Equipment Mechanic program. The statewide program goals statement may be augmented at the local level so that the unique circumstances of the community may be accommodated.

Goals are broad statements of intent that delineate the achievements the Heavy Equipment Mechanic program seeks to attain. Goals are stated in non-quantifiable terms.

Evaluative Criteria

The Heavy Equipment Mechanic program has a clearly defined, written goals statement that is reviewed by the program faculty, the administration, and the program advisory committee.

Any addition to the Heavy Equipment Mechanic program goals statement is developed by the program faculty, the administration, and the program advisory committee.

The goals of the Heavy Equipment Mechanic program are in accordance with the philosophy and purpose of the program.

The goals of the Heavy Equipment Mechanic program reflect a desire to provide exemplary occupational/technical education.

The goals of the Heavy Equipment Mechanic program reflect a commitment to assisting students to achieve successful employment in the heavy equipment mechanics field.

The goals of the Heavy Equipment Mechanic program are the basis for the development of program objectives.

The goals of the Heavy Equipment Mechanic program include a nondiscrimination statement pertaining to race, color, national origin, religion, sex, age, handicapping condition, academic disadvantage, and economic disadvantage.

HEAVY EQUIPMENT MECHANIC

The goals statement of the Heavy Equipmert Mechanic program is approved by the administration of the institution.

HEAVY EQUIPMENT MECHANIC

GOALS
(Process)

The goals of the Heavy Equipment Mechanic program are to:

1. Provide education which acknowledges individual differences and respects the right of individuals to seek fulfillment of educational needs.

2. Provide an environment which encourages the individual to benefit and contribute as a partner in the economic progress, development, and stability of Georgia.

3. Provide education which develops the potential of each student to become a productive, responsible, and upwardly mobile member of society.

4. Provide quality heavy equipment mechanic education in an atmosphere that fosters interest in and enthusiasm for learning.

5. Prepare graduates to function as accountable and responsible members within their field of endeavor.

6. Prepare graduates to function as safe and competent practitioners in the heavy equipment mechanics field.

7. Prepare program graduates with the highest level of competence possible given the constraints of the interests and ability levels of the individual.

8. Provide educational and related services without regard to race, color, national origin, religion, sex, age, handicapping condition, academic disadvantage, or economic disadvantage.

9. Foster employer participation, understanding, and confidence in the instructional process and the competence of Heavy Equipment Mechanic program graduates.

HEAVY EQUIPMENT MECHANIC

FOUNDATIONS
(Program Objectives)

Standard Statement

An objectives statement based on established program goals is developed for the Heavy Equipment Mechanic program.

Explanatory Comment

A statewide objectives statement is developed and provided for the Heavy Equipment Mechanic program. The statewide program objectives statement may be augmented at the local level so that the unique circumstances of the community may be accommodated.

Program objectives are desired program outcomes stated in measurable, temporal, and operational terms.

Evaluative Criteria

The Heavy Equipment Mechanic program has a clearly defined, written objectives statement that is reviewed by the program faculty, the administration, and the program advisory committee.

Any addition to the Heavy Equipment Mechanic program objectives statement is developed by the program faculty, administration, and the program advisory committee.

An essential objective of the Heavy Equipment Mechanic program is to prepare students for successful employment in the heavy equipment mechanics field.

The objectives of the Heavy Equipment Mechanic program stress learning outcomes, efficiency, enrollment, public relations, and other outcomes that impact on program quality.

A major objective of the Heavy Equipment Mechanic program is student achievement of identified exit point competencies.

The objectives of the Heavy Equipment Mechanic program include a nondiscrimination statement pertaining to race, color, national origin, religion, sex, age, handicapping condition, academic disadvantage, and economic disadvantage.

The objectives statement of the Heavy Equipment Mechanic program is approved by the administration of the institution.

HEAVY EQUIPMENT MECHANIC

OBJECTIVES
(Process)

The objectives of the Heavy Equipment Mechanic program are to:

1. Provide current curriculum, instructional materials, and equipment (in accordance with available funding) which teach knowledge, skills, and attitudes appropriate to industry needs.

2. Provide educational facilities which foster learning and provide safe, healthy environments available and accessible to all students who can benefit from the program.

3. Provide academic instruction which supports effective learning within the program and which enhances professional performance on the job.

4. Provide employability skills which foster work attitudes and work habits that will enable graduates of the program to perform as good employees.

5. Nurture the desire for learning so that graduates will pursue their own continuing education as a lifelong endeavor.

6. Provide an educational atmosphere which promotes a positive self-image and a sense of personal well-being.

7. Provide education that fosters development of good safety habits.

8. Provide admission, educational, and placement services without regard to race, color, national origin, religion, sex, age, or handicapping condition.

9. Provide information to the public regarding the program that will facilitate recruitment and enrollment of students.

10. Promote good public relations via contacts and regular communications with business, industry, and the public sector.

11. Promote faculty and student rapport and communications to enhance student success in the program.

HEAVY EQUIPMENT MECHANIC

FOUNDATIONS
(Availability)

Standard Statement

Written philosophy, purpose, goals, and objectives statements for the Heavy Equipment Mechanic program are made available to the staff of the institution and the general public.

Explanatory Comment

Published Heavy Equipment Mechanic program philosophy and purpose statements are important recruitment tools that help students to select programs that meet their needs.

Evaluative Criteria

The philosophy and purpose statements of the Heavy Equipment Mechanic program are published and made available to the staff of the institution and the general public.

Written goals and objectives are available for the Heavy Equipment Mechanic program.

Heavy Equipment Mechanic program philosophy, purpose, goals, and objectives statements are used by student services personnel to aid in recruiting and placing students.

HEAVY EQUIPMENT MECHANIC

FOUNDATIONS
(Evaluation)

Standard Statement

The philosophy, purpose, goals, and objectives of the Heavy Equipment Mechanic program are evaluated.

Explanatory Comment

The evaluation of the Heavy Equipment Mechanic program philosophy, purpose, goals, and objectives assists the program in meeting student, community, and employment market needs.

Evaluative Criteria

Formal evaluation of the philosophy, purpose, goals, and objectives of the Heavy Equipment Mechanic program is performed annually and documents input from the program faculty, the administration, and the program advisory committee.

Evaluation of the philosophy, purpose, goals, and objectives of the Heavy Equipment Mechanic program is conducted to assure congruence with changing community and employment market needs and Georgia Board of Technical and Adult Education philosophy and purpose statements.

Evaluation of the philosophy, purpose, goals, and objectives of the Heavy Equipment Mechanic program assesses congruence with the requirements of the designated accrediting agency(ies).

Evaluation processes are designed to consider state evaluation processes and requirements and to verify that the philosophy, purpose, goals, and objectives of the Heavy Equipment Mechanic program are being fulfilled.

Evaluation of the philosophy, purpose, goals, and objectives of the Heavy Equipment Mechanic program results in revision, as needed.

HEAVY EQUIPMENT MECHANIC

ADMISSIONS
(Admission Requirements)

Standard Statement

Statewide admission requirements are implemented for the Heavy Equipment Mechanic program.

Explanatory Comment

Admission refers to regular admission into a diploma granting program.

Statewide program admission requirements consider state and national occupational licensing and certifying requirements, where applicable.

The institution develops and implements clearly stated diploma program admissions policies and procedures.

Evaluative Criteria

The requirements for admission to the Heavy Equipment Mechanic program are:
a) attainment of 16 or more years of age;
b) achievement of the 7.5 grade level in math and the 8.5 grade level in reading and English as shown on a statistically validated test or minimum SAT scores of 350 verbal and 350 math; and
c) completion of application and related procedures.

Admission of transfer students to the Heavy Equipment Mechanic program is contingent upon their meeting the following requirements:
a) regular admission and good standing at a regionally accredited diploma or degree granting institution; and
b) proper completion of application and related procedures.

HEAVY EQUIPMENT MECHANIC

ADMISSIONS
(Provisional Admission Requirements)

Standard Statement

Statewide provisional admission requirements are implemented for the Heavy Equipment Mechanic program.

Explanatory Comment

Provisional admission is granted to qualified students who do not meet the regular admission requirements of the program.

Provisionally admitted students are allowed to take developmental studies courses and/or certain occupational courses as designated in the course sequence standard.

The institution develops and implements clearly stated policies and procedures for entry into diploma programs on a provisional basis.

Evaluative Criteria

Provisional admission to the Heavy Equipment Mechanic program is afforded those students who do not meet program admission requirements but who meet provisional admission requirements.

The requirements for provisional admission to the Heavy Equipment Mechanic program are:

a) attainment of 16 or more years of age;
b) achievement of the 6.5 grade level in math and the 7.5 grade level in reading and English as shown on a statistically validated test or recommendation by program faculty and designated admissions personnel on the basis of interview and assessment of student potential; and
c) completion of application and related procedures.

All Heavy Equipment Mechanic program students initially admitted on a provisional basis meet regular admission requirements prior to graduation.

Provisionally admitted students whose English, math, and/or reading achievement levels do not meet regular program admission requirements are required to enroll in developmental studies courses approved by the Georgia Board of Technical and Adult Education.

HEAVY EQUIPMENT MECHANIC

ADMISSIONS
(Recruitment)

Standard Statement

The Heavy Equipment Mechanic program recruitment materials and practices are in the best interests of the students, institution, community, and employment market.

Explanatory Comment

The recruitment effort makes potential students aware of the services provided by the Heavy Equipment Mechanic program and the institution.

The recruitment effort seeks to serve the economic development of the community by affording opportunities to prospective students.

The institution develops and implements a systematic, overall recruitment effort designed to assist students in meeting their occupational needs.

Evaluative Criteria

The recruitment effort assists in maintaining and/or increasing the Heavy Equipment Mechanic program and institution enrollments.

The recruitment effort of the Heavy Equipment Mechanic program includes participation in or assistance with:

a) development and dissemination of informational materials;
b) recruitment activities with other programs within the institution;
c) communication with potential students through contact with employers, secondary schools, organizations, the program advisory committee, and others;
d) promotion of Heavy Equipment Mechanic program awareness among individuals and groups; and
e) consideration of the industrial and business needs of the community and employment market.

All recruitment materials and practices are ethical, equitable, and accurate in the depiction of the institution, the Heavy Equipment Mechanic program, and the potential benefits of program completion.

HEAVY EQUIPMENT MECHANIC

A written description of the admission requirements and procedures, tuition fees, and other costs of the Heavy Equipment Mechanic program is made available to potential students.

Standard Number:
56-02-04

HEAVY EQUIPMENT MECHANIC

ADMISSIONS
(Evaluation and Planning)

Standard Statement

An evaluation of the admission requirements of the Heavy Equipment Mechanic program is conducted.

Explanatory Comment

The admission requirements of the Heavy Equipment Mechanic program are compatible with the admissions policies and procedures of the institution.

Evaluative Criteria

Heavy Equipment Mechanic program admission requirements are evaluated annually to assure compliance with Georgia Board of Technical and Adult Education policies and standards and designated accrediting agency requirements.

The administration, with input from the program faculty and advisory committee, conducts an annual evaluation of Heavy Equipment Mechanic program admission requirements to assess their adequacy in meeting the needs of the students, community, and employment market.

The evaluation results are used to modify the admissions procedures of the institution and to suggest Heavy Equipment Mechanic program admission changes to the Georgia Board of Technical and Adult Education, as needed.

Standard Number:
56-03-01

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Curriculum Design)

Standard Statement

The curriculum of the Heavy Equipment Mechanic program includes four categories of instruction: general core courses, fundamental occupational/technical courses, specific occupational/technical courses, and elective courses.

Explanatory Comment

General core courses and fundamental occupational/technical courses provide the academic and occupational/technical background that supports the specific occupational/technical and elective courses.

Evaluative Criteria

The Heavy Equipment Mechanic program requires student completion of general core courses such as math, language skills, and other courses required by the Georgia Board of Technical and Adult Education.

The Heavy Equipment Mechanic program requires student completion of fundamental occupational/technical courses in introductory concepts, principles, and technologies that provide the foundations for the given occupation and related fields.

The Heavy Equipment Mechanic program requires student completion of specific occupational/technical courses that build on the foundations provided in the fundamental occupational/technical courses.

Heavy Equipment Mechanic program students are offered the opportunity to take state-approved elective courses in order to develop their individual interests.

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Program Numbering System)

Standard Statement

A Classification of Instructional Programs (CIP) code is applied to the Heavy Equipment Mechanic program.

Explanatory Comment

Assignment of a statewide CIP code to every diploma program is the basis for consistent program identification.

Evaluative Criteria

The Heavy Equipment Mechanic program is assigned a (PGM) CIP code of (PGM) 47.0302 and is consistent with all other programs throughout the state which have the same (PGM) CIP code.

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Program Consistency)

Standard Statement

The Heavy Equipment Mechanic program utilizes essential course components consistent with statewide program requirements.

Explanatory Comment

Programs assigned an identical (PGM) CIP code are consistent statewide.

Evaluative Criteria

The Heavy Equipment Mechanic program is assigned a (PGM) CIP code of (PGM) 47.0302 and utilizes essential components designated for that program number statewide. Program components include but are not limited to:

a) Program Title

Heavy Equipment Mechanic

b) Program Description

The Heavy Equipment Mechanic program is a sequence of courses that prepares students for careers in heavy equipment mechanics and related fields. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of heavy equipment mechanics theory and practical application necessary for successful employment. Program graduates receive a Heavy Equipment Mechanic diploma.

HEAVY EQUIPMENT MECHANIC

c) Essential Courses — Credits

1) Essential General Core Courses — 10

EMP	101	Job Acquisition Skills	2
ENG	100	English	5
MAT	100	Basic Mathematics	3

2) Essential Fundamental Occupational Courses — 29

HEM	100	Basic Skills and Laboratory Safety	4
HEM	101	Engines I	5
HEM	102	Drive Systems I	4
HEM	103	Electrical I	8
HEM	104	Hydraulics I	8

3) Essential Specific Occupational Courses — 37

HEM	201	Air Conditioning	3
HEM	202	Engines II	3
HEM	203	Drive Systems II	4
HEM	204	Hydraulics II	9
HEM	205	Electrical II	5
HEM	206	Engines III	2
HEM	207	Drive Systems III	4
HEM	208	Drive Systems IV	3
XXX	xxx	Occupational or Occupationally Related Electives	4

d) Program Final Exit Point

Heavy Equipment Mechanic

e) Credits Required for Graduation

76 minimum quarter hour credits required for graduation

Standard Number:
56-03-04

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Exit Points)

Standard Statement

The Heavy Equipment Mechanic program faculty documents student attainment of identified exit points.

Explanatory Comment

Exit points are the points within the program at which occupational competencies are achieved to qualify students for an entry level position in their field.

Evaluative Criteria

The faculty of the Heavy Equipment Mechanic program monitors, evaluates, and records student progress towards achieving exit point competency levels.

The final Heavy Equipment Mechanic program exit point, documented by a diploma, is that of a heavy equipment mechanic.

The institution documents completion of exit points with a transcript.

Graduation from the Heavy Equipment Mechanic program is dependent upon meeting the requirements of the Georgia Board of Technical and Adult Education.

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Credentials)

Standard Statement

The achievement of Heavy Equipment Mechanic program graduates and leavers is documented by the institution.

Explanatory Comment

A program graduate is a student who successfully fulfills all program requirements. A program leaver is a student who exits from the program prior to completion of all program requirements.

Course description documents are based on the course title, the essential course description, the essential competency areas taught, and the number of credits awarded as detailed in the program-specific standards and the listing of state-approved electives.

Evaluative Criteria

The institution grants each Heavy Equipment Mechanic program graduate a diploma certifying satisfaction of program requirements.

Upon request, each Heavy Equipment Mechanic program graduate is provided a transcript and course description document detailing courses taken, grades, credits earned, and credential awarded.

Upon request, each Heavy Equipment Mechanic program leaver who has completed one or more courses is provided a transcript and course description document detailing courses taken, grades, and credits earned.

Upon request, each Heavy Equipment Mechanic program leaver who has not completed an entire course is provided a transcript and course description document detailing the course entered and withdrawal.

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Course Code)

Standard Statement

A statewide course identification code is applied to each Heavy Equipment Mechanic course.

Explanatory Comment

An alphanumeric identification code is assigned to each course.

All Georgia Board of Technical and Adult Education approved courses are included in the course identification coding system.

Evaluative Criteria

Each course is assigned an alphanumeric descriptor that serves as the statewide course identification code.

The following list contains the Georgia Board of Technical and Adult Education designated course titles and course identification codes of the Heavy Equipment Mechanic program.

EMP	101	Job Acquisition Skills
ENG	100	English
HEM	100	Basic Skills and Laboratory Safety
HEM	101	Engines I
HEM	102	Drive Systems I
HEM	103	Electrical I
HEM	104	Hydraulics I
HEM	201	Air Conditioning
HEM	202	Engines II
HEM	203	Drive Systems II
HEM	204	Hydraulics II
HEM	205	Electrical II
HEM	206	Engines III
HEM	207	Drive Systems III
HEM	208	Drive Systems IV
MAT	100	Basic Mathematics

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Course Consistency)

Standard Statement

Courses assigned a given course identification code are consistent.

Explanatory Comment

Courses assigned the same course identification code are consistent throughout the state.

One quarter equals a minimum of 50 instructional days. One contact hour equals a minimum of 50 minutes of instruction.

One (l) quarter hour credit is defined as follows:

a) class - One contact hour of class per week for the duration of a quarter equals one quarter hour credit; class is defined as instruction which emphasizes group or individualized classroom learning.

b) demonstration laboratory (D.Lab) - Two contact hours of demonstration laboratory per week for the duration of a quarter equals one quarter hour credit; demonstration laboratory is defined as instruction which emphasizes teacher assisted learning activities.

c) practical performance laboratory (P.Lab) - Three contact hours of practical performance laboratory per week for the duration of a quarter equals one quarter hour credit; practical performance laboratory is defined as instruction which emphasizes structured activities requiring the application and practice of occupational competencies.

d) occupation-based instruction (O.B.I.) - Three contact hours of occupation-based instruction per week for the duration of a quarter equals one quarter hour credit; occupation-based instruction is defined as instruction which emphasizes supervised work-experience activities requiring the application of occupational competencies.

HEAVY EQUIPMENT MECHANIC

Evaluative Criteria

Each course assigned a given course identification code utilizes certain components identical to those designated for that course identification code statewide.

Components designated for each course identification code include:
a) course title;
b) essential course description;
c) essential competency areas taught; and
d) number of quarter hour credits awarded for course completion.

HEAVY EQUIPMENT MECHANIC

Courses in the Heavy Equipment Mechanic program include:

EMP 101 - JOB ACQUISITION SKILLS

Provides knowledge and skills necessary to attain employment. Topics include: job search, oral communication skills, interview skills, job application, analysis of job demands, analysis of job benefits, resume preparation, and job marketing. Homework assignments provide an opportunity to practice job acquisition skills and result in production of a usable resume.

Competency Areas	Hours
- Job Search	Class/Week - 2
- Job Application	Lab/Week - 0
- Interview Skills	Credit - 2
- Analysis of Job Demands and Benefits	
- Resume Preparation	
- Oral Communications Skills	
- Job Marketing	

Prerequisite: Program admission

ENG 100 - ENGLISH

Emphasizes the development and improvement of written and oral communications abilities. Topics include: basic grammar; language usage; vocabulary; idea development; spelling; outlining; sentence elements; sentence development; paragraph development; revision; listening skills; reading skills; and locating, using, and organizing information. Homework assignments reinforce classroom learning.

Competency Areas	Hours
- Basic Oral Communications	Class/Week - 5
- Listening Skills	Lab/Week - 0
- Basic Grammar and Sentence Skills	Credit - 5
- Paragraph Development	
- Reading Skills	

Prerequisite: Program admission level English and reading competency

HEAVY EQUIPMENT MECHANIC

HEM 100 - BASIC SKILLS AND LABORATORY SAFETY

Introduces the student to basic shop skills, precision measurement, and general shop safety. Topics include: identification and use of standard hand tools, identification and use of power tools, selection and installation of fasteners, basic shop skills, precision measurement, equipment movement, cutting and welding, and general shop safety.

Competency Areas	Hours
- Identification and Use of Standard Hand Tools	Class/Week - 1
- Identification and Use of Power Tools	P.Lab/Week - 11
- Selection and Installation of Fasteners	Credit - 4
- Basic Shop Skills	
- Precision Measurement	
- Equipment Movement	
- Cutting and Welding	
- General Shop Safety	

Prerequisite/Corequisite: MAT 100

HEM 101 - ENGINES I

Introduces the student to the major components, engine systems, operating theory, and servicing of diesel engines. Topics include: major engine components, operating principles of two and four cycle engines, engine systems and their functions, and engine servicing.

Competency Areas	Hours
- Major Engine Components	Class/Week - 4
- Operating Principles of Two and Four Cycle Engines	P.Lab/Week - 4
	Credit - 5
- Engine Systems and Their Functions	
- Engine Servicing	

Prerequisite: Provisional admission

HEAVY EQUIPMENT MECHANIC

HEM 102 - DRIVE SYSTEMS I

Introduces the student to bearings, seals, gears, couplings and U-joints, and clutches and drive applications. Topics include: basic types of bearings, basic bearing applications, major types of seals, major types of couplings and U-joints, basic types of gears, basic types of gear train applications, and basic types of clutch/shifting devices.

Competency Areas	Hours
- Basic Types of Bearings	Class/Week - 4
- Basic Bearing Applications	Lab/Week - 0
- Major Types of Seals	Credit - 4
- Major Types of Couplings and U-Joints	
- Basic Types of Gears	
- Basic Types of Gear Train Applications	
- Basic Types of Clutch/Shifting Devices	

Prerequisite/Corequisite: MAT 100

HEM 103 - ELECTRICAL I

Provides a foundation in basic electrical theory, including Ohm's law, series, parallel, and combination series/parallel circuits; test instruments; and starting and generating circuits. Topics include: basic electrical theory; calculation and measurement properties of series, parallel, and combination circuits; use of test equipment and procedures; starter circuit operation; and alternator circuit operation.

Competency Areas	Hours
- Basic Electrical Theory	Class/Week - 7
- Calculation and Measurement Properties of Series, Parallel, and Combination Circuits	D.Lab/Week - 2
	Credit - 8
- Use of Test Equipment and Procedures	
- Starter Circuit Operation	
- Alternator Circuit Operation	

Prerequisite/Corequisite: MAT 100

HEAVY EQUIPMENT MECHANIC

HEM 104 - HYDRAULICS I

Introduces the student to basic hydraulics theory, symbols and schematics, system components, system servicing, and removal and replacement of components. Topics include: basic hydraulics theory, PAV relationships, hydraulic system components, oil cooling systems for hydraulics, hydraulic system service, and hydraulic system maintenance and repair.

Competency Areas	Hours
- Basic Hydraulics Theory	Class/Week - 6
- PAV Relationships	D.Lab/Week - 4
- Hydraulic System Components	Credit - 8
- Oil Cooling Systems for Hydraulics	
- Hydraulic System Service	
- Hydraulic System Maintenance and Repair	

Prerequisite/Corequisite: MAT 100

HEM 201 - AIR CONDITIONING

Introduces the student to the properties of freon, freon system principles, system components, and servicing and repair of air conditioning systems. Topics include: properties of freon, freon system components, freon system components principles, air conditioning systems service and repair, and air conditioning system components removal and replacement.

Competency Areas	Hours
- Properties of Freon	Class/Week - 2
- Freon System Components	P.Lab/Week - 4
- Freon System Components Principles	Credit - 3
- Air Conditioning Systems Service and Repair	
- Air Conditioning System Components Removal and Replacement	

Prerequisite: HEM 103

HEAVY EQUIPMENT MECHANIC

HEM 202 - ENGINES II

Introduces students to tuneups and cooling, fuel, and exhaust systems service. Topics include: minor and major tuneups, fuel and exhaust systems maintenance and repair, and cooling systems maintenance and repair.

Competency Areas	Hours
- Minor Tuneups	Class/Week - 2
- Major Tuneups	P.Lab/Week - 4
- Fuel and Exhaust Systems Maintenance and Repair	Credit - 3
- Cooling Systems Maintenance and Repair	

Prerequisite: HEM 101

HEM 203 - DRIVE SYSTEMS II

Includes maintenance and repair of torque converters and power shift transmissions. Topics include: introduction to torque converters, torque converters maintenance and repair, introduction to power shift transmissions, and power shift transmissions maintenance and repair.

Competency Areas	Hours
- Introduction to Torque Converters	Class/Week - 3
- Torque Converters Maintenance and Repair	P.Lab/Week - 3
- Introduction to Power Shift Transmissions	Credit - 4
- Power Shift Transmissions Maintenance and Repair	

Prerequisite: Provisional admission

HEAVY EQUIPMENT MECHANIC

HEM 204 - HYDRAULICS II

Provides advanced hydraulics experience in actual machine applications, such as hydrostatic drive, differential steering, dozer and loader systems, and other hydraulically driven systems. Topics include: introduction to hydrostatic drive systems, service and operational check of hydrostatic drive systems, introduction to heavy equipment hydraulic systems, and heavy equipment hydraulic systems maintenance and repair.

Competency Areas	Hours
- Introduction to Hydrostatic Drive Systems	Class/Week - 8
- Service and Operational Check of Hydrostatic Drive Systems	P.Lab/Week - 4
- Introduction to Heavy Equipment Hydraulic Systems	Credit - 9
- Heavy Equipment Hydraulic Systems Maintenance and Repair	

Prerequisite: HEM 104

HEM 205 - ELECTRICAL II

Develops skill and knowledge needed to service electrical and electronic systems on heavy equipment. Topics include: electrical systems maintenance and repair, alternator and regulator testing, an introduction to the operation of electronic systems, and electronic systems maintenance and repair.

Competency Areas	Hours
- Electrical Systems Maintenance and Repair	Class/Week - 1
- Alternator and Regulator Testing	D.Lab/Week - 9
- Introduction to the Operation of Electronic Systems	Credit - 5
- Electronic Systems Maintenance and Repair	

Prerequisite: HEM 103

HEAVY EQUIPMENT MECHANIC

HEM 206 - ENGINES III

Encompasses frame overhaul and maintenance and repair of discrete engine components. Topics include: frame overhauls and engine maintenance and repair.

Competency Areas	Hours
- Frame Overhauls	Class/Week - 1
- Engine Maintenance and Repair	P.Lab/Week - 5
	Credit - 2

Prerequisite: HEM 202

HEM 207 - DRIVE SYSTEMS III

Explores various types of final drives. The student is introduced to various types of final drives and is provided opportunities to perform disassembly/reassembly functions on the drives. Topics include: operation principles of major types of final drives, final drives maintenance and repair, and differentials maintenance and repair.

Competency Areas	Hours
- Operation Principles of Major Types of Final Drives	Class/Week - 2
- Final Drives Maintenance and Repair	P.Lab/Week - 6
- Differentials Maintenance and Repair	Credit - 4

Prerequisites: HEM 102, HEM 203

HEAVY EQUIPMENT MECHANIC

HEM 208 - DRIVE SYSTEMS IV

Introduces the student to track system undercarriages. Emphasis is placed on theory of operation, removal and replacement of components, track tensioning, and track alignment. Topics include: major parts of a tracked vehicle undercarriage, operation principles of tracked vehicle undercarriage, and tracked vehicle undercarriage maintenance and repair.

Competency Areas	Hours
- Major Parts of a Tracked Vehicle Undercarriage - Operation Principles of a Tracked Vehicle Undercarriage - Tracked Vehicle Undercarriage Maintenance and Repair	Class/Week - 2 P.Lab/Week - 4 Credit - 3

Prerequisites: HEM 102, HEM 203

MAT 100 - BASIC MATHEMATICS

Emphasizes basic mathematical concepts. Topics include: mathematical operations with whole numbers, fractions, decimals, percents, ratio/proportion, and measurement using common English and metric units. Class includes lecture, applications, and homework to reinforce learning.

Competency Areas	Hours
- Mathematical Operations - Fractions - Decimals - Percents - Ratio and Proportion - Measurement and Conversion	Class/Week - 3 Lab/Week - 0 Credit - 3

Prerequisite: Program admission level math competency

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Course Sequence)

Standard Statement

The Heavy Equipment Mechanic program requires students to progress through the four instructional course categories in a developmentally valid sequence.

Explanatory Comment

The four instructional course categories are: general core courses, fundamental occupational/technical courses, specific occupational/technical courses, and elective courses.

A developmentally valid instructional sequence is one in which the student acquires prerequisite knowledge and skills before progressing to more advanced studies.

Evaluative Criteria

The Heavy Equipment Mechanic program requires students to complete prerequisite courses prior to enrolling in subsequent courses.

Provisions are made for Heavy Equipment Mechanic program students to exempt courses in which they are competent.

The Heavy Equipment Mechanic program complies with the required provisional admission, program admission, and/or program admission level competency prerequisites listed below.

The Heavy Equipment Mechanic program reflects the suggested course prerequisites and/or corequisites listed below.

(In the list below prerequisites are indicated by [P]
and prerequisites/corequisites are indicated by [P/C].)

Courses		Sequence
EMP 101	Job Acquisition Skills	[P] Program admission
ENG 100	English	[P] Program admission level English and reading competency

HEAVY EQUIPMENT MECHANIC

HEM 100	Basic Skills and Laboratory Safety	[P/C] MAT 100
HEM 101	Engines I	[P] Provisional admission
HEM 102	Drive Systems I	[P/C] MAT 100
HEM 103	Electrical I	[P/C] MAT 100
HEM 104	Hydraulics I	[P/C] MAT 100
HEM 201	Air Conditioning	[P] HEM 103
HEM 202	Engines II	[P] HEM 101
HEM 203	Drive Systems II	[P] Provisional admission
HEM 204	Hydraulics II	[P] HEM 104
HEM 205	Electrical II	[P] HEM 103
HEM 206	Engines III	[P] HEM 202
HEM 207	Drive Systems III	[P] HEM 102, HEM 203
HEM 208	Drive Systems IV	[P] HEM 102, HEM 203
MAT 100	Basic Mathematics	[P] Program admission level math competency

Standard Number:
56-03-09

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Electives)

Standard Statement

Electives are made available for the Heavy Equipment Mechanic program.

Explanatory Comment

Heavy Equipment Mechanic program students are provided opportunities to enroll in state-approved elective courses. Elective courses utilize the following components: course title, essential course description, essential competency areas, and number of credits awarded for course completion.

Required courses for a diploma program are available to other diploma programs as elective courses.

Evaluative Criteria

Electives are established utilizing the following process:

a) The administration of the institution, the program faculty, and the program advisory committee cooperate in establishing and utilizing a system to recommend needed and feasible elective courses;
b) The administration of the institution, the program faculty, and the program advisory committee communicate with the statewide program technical committee and appropriate staff of the Georgia Department of Technical and Adult Education concerning the proposed elective(s);
c) The administration of the institution, the program faculty, and the program advisory committee consider revisions and prepare a final elective course proposal;
d) The administration of the institution presents the elective course proposal to the appropriate staff of the Georgia Department of Technical and Adult Education;
e) The staff of the Georgia Department of Technical and Adult Education reviews the proposal using its established criteria for evaluating elective courses.

Electives are made available for the Heavy Equipment Mechanic program and elective course work is included in the requirements for program graduation.

HEAVY EQUIPMENT MECHANIC

PROGRAM STRUCTURE
(Course Transferability)

Standard Statement

Heavy Equipment Mechanic program courses are transferable on the basis of their course identification code.

Explanatory Comment

Courses assigned identical course identification codes include consistent essential competency areas; therefore, resultant credits are guaranteed transferability between programs and institutions under the jurisdiction of the Georgia Board of Technical and Adult Education.

Courses that do not have an assigned course identification code but include similar essential competency areas are selectively transferable.

Evaluative Criteria

Heavy Equipment Mechanic program courses assigned designated course identification codes are transferable between programs and institutions under the jurisdiction of the Georgia Board of Technical and Adult Education.

Courses taken outside the Georgia Technical and Adult Education system are selectively accepted for transfer on the basis of similarity in competency areas as determined by the Heavy Equipment Mechanic program faculty and admissions officers.

Only those courses in which a grade of C or better was awarded are transferable.

HEAVY EQUIPMENT MECHANIC

PROGRAM EVALUATION AND PLANNING
(Program Evaluation)

Standard Statement

A written evaluation procedure is developed and implemented for the Heavy Equipment Mechanic program.

Explanatory Comment

Program evaluation procedures vary depending upon the nature of the institution and the program. The administration and program faculty, in association with the program advisory committee, develop and implement program evaluation procedures and data collection techniques that are reasonable and realistic for yearly evaluation purposes.

Heavy Equipment Mechanic program faculty and administrative personnel work together to determine student enrollment, attrition, graduation, placement, and performance levels.

Evaluative Criteria

A procedure for continuous Heavy Equipment Mechanic program evaluation is developed and implemented by the administration of the institution, program faculty, and program advisory committee. Formal evaluation of the Heavy Equipment Mechanic program is conducted and documented annually.

The Heavy Equipment Mechanic program evaluation procedure is used to determine the extent to which program goals and objectives are achieved.

The Heavy Equipment Mechanic program evaluation results are used to determine the adequacy of the existing program to meet current occupational needs.

The Heavy Equipment Mechanic program evaluation procedure is used to ascertain the consistency of the philosophy, purpose, goals, and objectives of the program with those of the institution, the Georgia Board of Technical and Adult Education, and the designated accrediting agency(ies).

The Heavy Equipment Mechanic program evaluation procedure includes review of student program evaluations, enrollment, attrition, graduation, placement, and student performance levels.

HEAVY EQUIPMENT MECHANIC

The Heavy Equipment Mechanic program evaluation procedure includes consultation with the program advisory committee, frequent communication with employers, analysis of placement and follow-up data, and collection of other information to evaluate and document program relevance.

Heavy Equipment Mechanic program evaluation results are used to plan program improvements.

HEAVY EQUIPMENT MECHANIC

PROGRAM EVALUATION AND PLANNING
(Program Planning)

Standard Statement

A written planning procedure is developed and implemented for the Heavy Equipment Mechanic program.

Explanatory Comment

The Heavy Equipment Mechanic program planning procedure allows responsiveness to the changing needs of the community and employment market.

The Heavy Equipment Mechanic program is evaluated at the institutional level by the students, instructors, program advisory committee, and administration; from this documented data, short-range and long-range program planning is developed.

Evaluative Criteria

A Heavy Equipment Mechanic program planning procedure is developed and implemented by the administration of the institution and program faculty. Formal planning for the Heavy Equipment Mechanic program is conducted and documented annually.

The Heavy Equipment Mechanic program planning procedure utilizes program evaluation results to facilitate provision of program offerings of sufficient quality and scope to meet community and employment market needs.

The Heavy Equipment Mechanic program planning procedure considers recommendations for program and course continuation, addition, deletion, and/or modification based on needs assessment information and input from the administration of the institution, the program faculty, and the advisory committee.

The Heavy Equipment Mechanic program planning procedure considers information from appropriate national, state, and local governmental and non-governmental agencies.

The Heavy Equipment Mechanic program planning procedure considers information such as demographic studies, occupational surveys, current curricula, cost estimates, instructor availability, equipment needs, and projected enrollment figures that include special populations.

HEAVY EQUIPMENT MECHANIC

The Heavy Equipment Mechanic program planning procedure satisfies the program planning requirements of the designated accrediting agency(ies).

HEAVY EQUIPMENT MECHANIC

PROGRAM EVALUATION AND PLANNING
(Enrollment, Graduation, and Placement Levels)

Standard Statement

An evaluation of the enrollment, graduation, and placement levels of the Heavy Equipment Mechanic program is conducted.

Explanatory Comment

Acceptable Heavy Equipment Mechanic program outcomes (enrollment, graduation, and placement levels) are identified in the Evaluation, Planning, and Budgeting (EPB) model.

Evaluative Criteria

Annual evaluation of Heavy Equipment Mechanic program enrollment, graduation, and placement statistics is conducted and documented by the administration and program faculty.

Heavy Equipment Mechanic program evaluation findings are compared with acceptable outcome levels designated for state evaluation requirements.

Factors contributing to the outcomes of the Heavy Equipment Mechanic program are identified and analyzed. Where enrollment, graduation, and/or placement levels are unacceptable, appropriate corrective action is taken.

HEAVY EQUIPMENT MECHANIC

PROGRAM EVALUATION AND PLANNING
(Attrition Levels)

Standard Statement

An analysis of the attrition level of the Heavy Equipment Mechanic program is conducted and used in evaluating and improving the program.

Explanatory Comment

Attrition level is a measure of the number of students who withdraw from a program prior to completion of graduation requirements.

Attrition levels vary from one type of program to another depending on the nature of the program and the student population. The attrition level of the Heavy Equipment Mechanic program is compared with relevant, available national norms and other data.

Evaluative Criteria

Annual evaluation of the attrition level of the Heavy Equipment Mechanic program is conducted and documented by the program faculty.

Factors contributing to the attrition level are identified and analyzed, and appropriate corrective action is taken.

HEAVY EQUIPMENT MECHANIC

PROGRAM EVALUATION AND PLANNING
(Student Performance)

Standard Statement

An evaluation of the Heavy Equipment Mechanic program is conducted based on student achievement levels.

Explanatory Comment

Achievement levels are evaluated on the basis of verified student performance related to academic knowledge, occupational/technical knowledge, and performance skills.

Student achievement levels for the Heavy Equipment Mechanic program are determined on the basis of student performance data gathered from tests which are locally developed and conducted during each program of study.

Evaluative Criteria

Annual evaluation of Heavy Equipment Mechanic program student achievement levels is conducted and documented by the administration and program faculty.

Factors contributing to student achievement levels are identified and analyzed. Where achievement is low, corrective action is taken to improve the program.

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Course Content)

Standard Statement

The essential content of each Heavy Equipment Mechanic course is consistent statewide for courses having the same course identification code.

Explanatory Comment

Course content is defined in terms of competency areas taught. The program-specific standards of the Georgia Board of Technical and Adult Education detail the essential competency areas for each course identification code.

Evaluative Criteria

The content of each Heavy Equipment Mechanic course having a given course identification code includes, but is not limited to, essential competency areas identified for that course identification code.

Competency areas included in the Heavy Equipment Mechanic course content reflect advances in the subject area and occupational field and respond to student, community, and employment market needs.

The overall content of each Heavy Equipment Mechanic course is consistent with established program goals and objectives.

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Course Objectives)

Standard Statement

Each Heavy Equipment Mechanic program course is constructed on the basis of course objectives.

Explanatory Comment

Course objectives are desired student performance outcomes stated in measurable performance terms.

The Heavy Equipment Mechanic program faculty coordinates the planning of course objectives, outlines, and syllabi in an effort to facilitate program efficiency and consistency.

Evaluative Criteria

The objectives of each Heavy Equipment Mechanic course are derived from established program objectives.

Heavy Equipment Mechanic course outlines and lesson plans are based on course objectives.

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Course Instruction)

Standard Statement

Suitable instructional techniques and resources facilitate the fulfillment of Heavy Equipment Mechanic course objectives.

Explanatory Comment

A wide variety of instructional techniques and resources are used to direct student learning experiences.

Evaluative Criteria

Course outlines, syllabi, and group or individual lesson preparations serve to organize instruction in each Heavy Equipment Mechanic classroom and laboratory.

Instructional materials such as competency tests, text books, instruction sheets, audiovisuals, and computer programs are utilized to meet Heavy Equipment Mechanic program goals and objectives and enhance instructional effectiveness.

Teaching methods, materials, and procedures make provisions for individual differences, needs, and capabilities. Opportunities for remediation are provided to students as needed.

Student learning experiences include theoretical instruction and practical application of knowledge. The ratio of theoretical to practical instruction depends on the nature of program competencies.

Student progress is systematically monitored, evaluated, and recorded by the Heavy Equipment Mechanic program faculty as part of the instructional process.

Desirable employability skills are integrated into Heavy Equipment Mechanic course instruction and are modeled by the instructor.

Academic skills are integrated into Heavy Equipment Mechanic course instruction and are modeled by the instructor.

A syllabus which outlines course objectives, requirements, content, and evaluation techniques is made available to students enrolled in each Heavy Equipment Mechanic course.

HEAVY EQUIPMENT MECHANIC

Instructional methods are evaluated routinely, and evidence of improvement is collected and documented by the Heavy Equipment Mechanic program faculty.

Standard Number:
56-05-04

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Occupation-Based Instruction)

Standard Statement

The Heavy Equipment Mechanic program offers effective occupation-based instructional delivery where appropriate.

Explanatory Comment

Occupation-based instructional delivery systems include educational work experiences, internships, practicums, and other specialized and/or innovative learning arrangements.

Diploma programs that require internships, work experience arrangements, and/or other occupation-based instructional experiences do so on the basis of designated essential competency areas and courses for the given program.

Evaluative Criteria

Any internship, on-the-job training arrangement, or other educational work experience that is a Heavy Equipment Mechanic program requirement or elective is:

a) listed as a course having a course identification code;
b) assigned course credit and required tuition;
c) defined by the same requirements for statewide course title, essential course description, and essential competency areas as any other diploma/degree program course;
d) controlled and supervised by the institution, Heavy Equipment Mechanic program faculty, and/or the person designated to coordinate work experience courses; and
e) managed through the use of prescribed individual training plans that detail required student learning and performance objectives and appropriate agreements between institutions and work experience supervisors.

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Evaluation of Students)

Standard Statement

A system for evaluation of students is developed and implemented by the Heavy Equipment Mechanic program faculty.

Explanatory Comment

Evaluation of students is based on tests, observations, records, interviews, homework, projects, and/or other evidence of student performance.

Evaluative Criteria

The Heavy Equipment Mechanic program system for evaluation of students is consistent with institutional grading policies.

The faculty of the Heavy Equipment Mechanic program develops, implements, and disseminates a written system for evaluation of students.

The Heavy Equipment Mechanic program system for evaluation of students reflects the philosophy, purpose, goals, and objectives of the program.

The Heavy Equipment Mechanic program system for evaluation of students requires use of competency-based measures of student performance.

The Heavy Equipment Mechanic program system for evaluation of students requires use of both formative and summative evaluation.

The Heavy Equipment Mechanic program system for evaluation of students includes evaluation and documentation of student achievement in both course specific knowledge and practical application.

The Heavy Equipment Mechanic program system for evaluation of students includes evaluation and documentation of student achievement in the cognitive, affective, and psychomotor domains.

The Heavy Equipment Mechanic program system for evaluation of students is reviewed annually and revised, as necessary.

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Grading System)

Standard Statement

The Heavy Equipment Mechanic program implements statewide grading standards.

Explanatory Comment

Program grading systems vary in detail but are consistent regarding major principles.

Evaluative Criteria

The faculty of the Heavy Equipment Mechanic program develops, implements, and disseminates a written grading system that incorporates statewide grading standards.

The grading system reflects the objectives of the Heavy Equipment Mechanic program.

The grading system of the Heavy Equipment Mechanic program is used to promote student awareness of learning progress.

The grading system of the Heavy Equipment Mechanic program bases grades in occupational courses on documented measures of student knowledge, practical application of knowledge, and employability skills.

The grading system of the Heavy Equipment Mechanic program establishes passing grades that document student achievement of course competencies at levels acceptable for job entry.

The grading system of the Heavy Equipment Mechanic program requires use of a grading scale whereby 90 to 100% is an A, 80 to 89% is a B, 70 to 79% is a C, 65 to 69% is a D, and 0 to 64% is an F.

The grading system of the Heavy Equipment Mechanic program recommends the minimum course grade of C required for progress from specified courses to more advanced courses.

The grading system of the Heavy Equipment Mechanic program is evaluated annually by the program faculty and revised, as needed.

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Laboratory Management)

Standard Statement

A system for instructional laboratory management is developed and implemented by the faculty of the Heavy Equipment Mechanic program.

Explanatory Comment

An established laboratory management system facilitates productive instructional laboratory operation.

Evaluative Criteria

The faculty of the Heavy Equipment Mechanic program develops and implements a written laboratory management system.

The laboratory management system is disseminated to Heavy Equipment Mechanic program students and faculty.

Institutional policies regarding safety, liability, and laboratory operation are reflected in the Heavy Equipment Mechanic program laboratory management procedure.

The Heavy Equipment Mechanic program laboratory management system is consistent with the goals and objectives of the program.

The Heavy Equipment Mechanic program laboratory management system maximizes the instructional usefulness of student laboratory experiences. The laboratory management system is designed to meet student needs in learning program competencies.

The Heavy Equipment Mechanic program laboratory management system complies with and stresses safety practices, requires that safety instruction precede laboratory instruction, and establishes required safety tests.

The Heavy Equipment Mechanic program laboratory management system is developed using input from program faculty, advisory committee members, and, when possible, students.

The laboratory management system is evaluated annually and revised, as needed.

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Live Work)

Standard Statement

The faculty of each Heavy Equipment Mechanic program that includes live work as part of its curriculum develops and implements a written live work system.

Explanatory Comment

Live work is a vital component of many occupational/technical programs and is integrated into the curriculum where specific courses require laboratory experience.

Evaluative Criteria

The faculty of each Heavy Equipment Mechanic program that includes live work as part of its curriculum develops and implements a written live work system.

Information about the live work system of the Heavy Equipment Mechanic program is made available to the entire institution.

The live work system supports and enhances the course curricula. Live work does not replace or interrupt essential course content or sequence and seeks to avoid conflict with community businesses.

The live work system is consistent with the philosophy, purpose, goals, and objectives of the Heavy Equipment Mechanic program.

The live work system details methods for publicizing services, handling customer relations, accounting, assigning work, documenting work, and/or other needed functions.

The live work system is developed by the Heavy Equipment Mechanic program faculty using input from students when possible.

The live work system conforms to institutional regulations and is approved by the administration of the institution.

The live work system conforms to the live work policy of the Georgia Board of Technical and Adult Education.

HEAVY EQUIPMENT MECHANIC

The live work system is evaluated annually by the faculty of each Heavy Equipment Mechanic program and revised, as needed.

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Equipment, Supplies, and Materials)

Standard Statement

The furnishings, equipment, supplies, and materials for the Heavy Equipment Mechanic program are sufficient, appropriate, and adequately maintained to support safe and effective instruction.

Explanatory Comment

Program equipment, supplies, and materials include items used in a given occupation and items used in the delivery of instruction.

Evaluative Criteria

Current and adequately maintained furnishings, equipment, supplies, and materials are available to meet the instructional goals and performance objectives of the Heavy Equipment Mechanic program.

Students in the Heavy Equipment Mechanic program are helped to develop transferable occupational skills by using instructional equipment, tools, materials, and supplies that are comparable to those currently used in the occupational field. Tools and equipment reflect industry quality standards.

The furnishings, equipment, supplies, and materials used in the Heavy Equipment Mechanic program meet or exceed applicable local, state, and federal health and safety standards.

The Heavy Equipment Mechanic program makes provisions to ensure that all health and safety equipment, machine guards, fixtures, materials, and supplies required by local codes, state law, and professional practice are available and maintained in working order.

The Heavy Equipment Mechanic program requires that applicable personal safety devices, equipment, and supplies are available, utilized, and maintained in working order.

First aid supplies appropriate for the Heavy Equipment Mechanic program are available throughout each program area.

HEAVY EQUIPMENT MECHANIC

INSTRUCTIONAL PROGRAM
(Physical Facility)

Standard Statement

The Heavy Equipment Mechanic program is provided with adequate and appropriate facilities.

Explanatory Comment

The facilities for the Heavy Equipment Mechanic program vary depending on enrollments, learning activities involved, instructional equipment used, indoor and/or outdoor instruction involved, and other factors.

Evaluative Criteria

Space allocations for the Heavy Equipment Mechanic program are appropriate for the number of students enrolled and the type of instructional activity involved.

The physical facilities for the Heavy Equipment Mechanic program are designed to facilitate instructional delivery, allow program flexibility, accommodate instructional management, protect students and staff against safety hazards, protect equipment from loss or damage, provide accessibility to all students, and create a positive atmosphere for effective learning.

The physical facilities for the Heavy Equipment Mechanic program are arranged to separate noise-producing activities from those that require a quiet environment, to expedite student traffic flow, and to prevent disruption of instruction.

Water, electricity, and other utilities are safely and conveniently provided to the Heavy Equipment Mechanic program on the basis of instructional needs.

The Heavy Equipment Mechanic program is provided with lighting, heating, cooling, ventilation, and any specialized control systems needed to maintain healthy and safe working conditions and meet instructional requirements.

The physical facilities for the Heavy Equipment Mechanic program include classrooms, laboratories, and/or other specialized learning areas needed to meet instructional requirements.

HEAVY EQUIPMENT MECHANIC

Heavy Equipment Mechanic program equipment, supplies, and materials are installed, color coded, controlled, ventilated, and/or stored in accordance with applicable health and safety codes.

The Heavy Equipment Mechanic program implements an equipment, materials, and supplies management system that delineates proper procedures for purchasing, maintaining, locating, storing, inventorying, securing, distributing, repairing, replacing, and safely using instructional items.

The Heavy Equipment Mechanic program utilizes its advisory committee and other inputs in implementing annual evaluation and planning procedures to maintain or improve the adequacy, safety, and management of equipment, materials, and supplies.

HEAVY EQUIPMENT MECHANIC

The institution provides adequate and appropriate non-instructional facilities including offices, restrooms, storage areas, and any other specialized areas needed to meet Heavy Equipment Mechanic program needs.

The facilities for the Heavy Equipment Mechanic program are maintained regularly and operated effectively and cost efficiently.

The Heavy Equipment Mechanic program faculty and advisory committee conduct an annual facility evaluation which contributes to the overall institutional facility review process.

HEAVY EQUIPMENT MECHANIC

ACADEMIC SKILLS
(Academic Requirements)

Standard Statement

Academic achievement standards are established for the Heavy Equipment Mechanic program.

Explanatory Comment

Examples of academic skills include, but are not limited to, communication skills, reading comprehension skills, and computation skills.

Developmental studies assists students to improve skills such as language usage, reading, and computation prior to regular program admission.

Evaluative Criteria

The Heavy Equipment Mechanic program utilizes academic achievement standards for admission that reflect skills necessary for successful participation in the instructional program.

The institution offers developmental studies to students who do not meet academic achievement standards for program admission.

The institution offers a required general core curriculum consisting of academic instruction.

Opportunities for academic remediation are provided to students while enrolled in Heavy Equipment Mechanic program courses.

The Heavy Equipment Mechanic program utilizes academic evaluation achievement standards that reflect skills necessary for successful performance on the job.

Where a state-approved evaluation has not been established, evaluation of essential academic skills is conducted according to standards developed by the local program faculty.

Standard Number:
56-07-01

HEAVY EQUIPMENT MECHANIC

EMPLOYABILITY SKILLS
(Job Acquisition)

Standard Statement

Job acquisition competency areas are integrated into the curriculum of the Heavy Equipment Mechanic program.

Explanatory Comment

Employability skills refer to the basic academic, interpersonal, reasoning, and problem solving skills that, when transferred to the occupational setting, facilitate job acquisition, retention, and advancement.

Job acquisition competency areas consist of essential employability skills that directly influence the ability to obtain employment.

Evaluative Criteria

The faculty of the Heavy Equipment Mechanic program ensures that job acquisition competency areas are included in the curriculum.

Job acquisition competency areas include, but are not limited to, the following:
a) job search;
b) job application and resume preparation;
c) interviewing; and
d) job marketing.

The faculty of the Heavy Equipment Mechanic program utilizes job follow-up data, current research, and the expertise of the program advisory committee to evaluate and update the delivery of program employability skills training.

The faculty of the Heavy Equipment Mechanic program assists in providing student employment information to the job placement office.

The faculty of the Heavy Equipment Mechanic program encourages and guides students in preparing occupationally appropriate job acquisition materials such as applications, resumes, letters of reference, work histories, course descriptions or outlines, transcripts, and other related information.

HEAVY EQUIPMENT MECHANIC

The media collection includes multi-media employability information appropriate for classroom and individual student use.

HEAVY EQUIPMENT MECHANIC

EMPLOYABILITY SKILLS
(Job Retention and Advancement)

Standard Statement

Job retention and advancement competency areas are integrated into the curriculum of the Heavy Equipment Mechanic program.

Explanatory Comment

Employability skills refer to the basic academic, interpersonal, reasoning, and problem solving skills that, when transferred to the occupational setting, facilitate job acquisition, retention, and advancement.

Job retention and advancement competency areas consist of desirable job performance skills and attitudes that directly influence the ability to maintain employment or achieve an improved employment role.

Evaluative Criteria

The faculty of the Heavy Equipment Mechanic program ensures that job retention and advancement competency areas are included in the curriculum.

The Heavy Equipment Mechanic program curriculum stresses professional job performance required for maintaining and advancing in a job including, but not limited to, demonstration of:

a) knowledge of occupational and academic skills;
b) quality work standards;
c) productivity;
d) communication skills;
e) punctuality;
f) problem solving skills;
g) interpersonal skills;
h) confidentiality; and
i) knowledge of the career ladder.

HEAVY EQUIPMENT MECHANIC

The Heavy Equipment Mechanic program curriculum stresses professional attitudes required for maintaining and advancing in a job including, but not limited to, demonstration of:

a) cooperativeness;
b) pleasantness;
c) responsibility;
d) self-control;
e) enthusiasm;
f) flexibility;
g) helpfulness;
h) loyalty; and
i) willingness to learn.

The Heavy Equipment Mechanic program faculty utilizes job follow-up data, current research, and the expertise of the program advisory committee to evaluate and update the delivery of program employability skills training.

The Heavy Equipment Mechanic program faculty assists in providing student employment information to the job placement office.

HEAVY EQUIPMENT MECHANIC

STAFF
(Faculty Qualifications and Responsibilities)

Standard Statement

Qualified faculty are responsible for carrying out the purpose, goals, and objectives of the Heavy Equipment Mechanic program.

Explanatory Comment

Essential faculty qualifications and responsibilities are detailed in the Certification Manual and the program-specific standards established by the Georgia Board of Technical and Adult Education.

Evaluative Criteria

The qualifications for each Heavy Equipment Mechanic program part-time or full-time faculty member meet the requirements specified in the Certification Manual of the Georgia Board of Technical and Adult Education, as appropriate, and the requirements of the designated accrediting agency(ies).

The responsibilities of each Heavy Equipment Mechanic program part-time or full-time faculty member are in compliance with the requirements specified in the Georgia Board of Technical and Adult Education Policy Manual and are in conformance with the requirements of the designated accrediting agency(ies).

The faculty of the Heavy Equipment Mechanic program use annual staff development opportunities to assure achievement of occupational and instructional competency.

HEAVY EQUIPMENT MECHANIC

ADVISORY COMMITTEE
(Function)

Standard Statement

A program advisory committee provides expert support for the Heavy Equipment Mechanic program.

Explanatory Comment

A program advisory committee is established to promote interaction between the Heavy Equipment Mechanic program and businesses and industries served by the program.

Faculty use the expertise of the advisory committee to improve program content and operation.

Evaluative Criteria

The Heavy Equipment Mechanic program advisory committee assists with developing short-range and long-range plans.

The Heavy Equipment Mechanic program advisory committee provides advice regarding curriculum content to ensure that courses relate to present and future employment needs.

The Heavy Equipment Mechanic program advisory committee makes suggestions regarding the modification, addition, or deletion of course offerings.

The Heavy Equipment Mechanic program advisory committee supports the program through public relations activities.

The Heavy Equipment Mechanic program advisory committee makes recommendations regarding the design and use of physical facilities.

The Heavy Equipment Mechanic program advisory committee makes recommendations regarding the selection and maintenance of equipment.

The Heavy Equipment Mechanic program advisory committee assists in evaluation of program effectiveness, job development, job placement, program promotion, evaluation in relation to standards, program advocacy, and industrial support of the program.

HEAVY EQUIPMENT MECHANIC

The Heavy Equipment Mechanic program advisory committee submits its recommendations regarding program related changes to the appropriate state-level technical committee for review on an annual basis.

The Heavy Equipment Mechanic program faculty provides documented evidence that program advisory committee recommendations are considered and that specific action is taken on each recommendation.

HEAVY EQUIPMENT MECHANIC

ADVISORY COMMITTEE
(Membership)

Standard Statement

The membership of the Heavy Equipment Mechanic program advisory committee is representative of the community and employment market served by the program.

Explanatory Comment

The Heavy Equipment Mechanic program advisory committee is composed primarily of persons in the industry served by the program and includes persons within the community and employment market who positively impact the program.

Evaluative Criteria

The faculty of the Heavy Equipment Mechanic program, in cooperation with the administration of the institution, selects the advisory committee.

The Heavy Equipment Mechanic program advisory committee includes a cross-section of representatives from program-related businesses and industries.

The Heavy Equipment Mechanic program advisory committee includes program-related business and industry representatives who have varying occupational positions.

The Heavy Equipment Mechanic program advisory committee includes faculty as ex officio members.

The Heavy Equipment Mechanic program advisory committee is composed of a minimum of five members.

The Heavy Equipment Mechanic program advisory committee maintains a base of experienced members while acquiring new members.

The Heavy Equipment Mechanic program advisory committee members are recognized for their dedication and effort to improve the quality of education.

HEAVY EQUIPMENT MECHANIC

ADVISORY COMMITTEE
(Meetings)

Standard Statement

Heavy Equipment Mechanic program advisory committee meetings have a planned program of work.

Explanatory Comment

Regularly scheduled formal advisory committee meetings focus on planning, developing, implementing, and evaluating the Heavy Equipment Mechanic programs.

Evaluative Criteria

The Heavy Equipment Mechanic program advisory committee has an annual program of work on file.

The Heavy Equipment Mechanic program advisory committee meets a minimum of two times annually on a scheduled basis.

The Heavy Equipment Mechanic program advisory committee elects officers, including a chairperson and a secretary.

The Heavy Equipment Mechanic program advisory committee follows an agenda which is distributed to members prior to each meeting.

The chairperson of the Heavy Equipment Mechanic program advisory committee assists program faculty in developing the agenda for each meeting.

The Heavy Equipment Mechanic program advisory committee maintains minutes indicating date, agenda, members present, and recommendations.

Minutes are distributed to each Heavy Equipment Mechanic program advisory committee member prior to each meeting.

The Heavy Equipment Mechanic program advisory committee maintains an open file of minutes and other necessary documents for a minimum of three years.

HEAVY EQUIPMENT MECHANIC

The Heavy Equipment Mechanic program advisory committee members are invited to make periodic classroom visits to the institution.

The Heavy Equipment Mechanic program advisory committee has a quorum present to conduct business.

HEAVY EQUIPMENT MECHANIC

SPECIAL NEEDS
(Commitment)

Standard Statement

The Heavy Equipment Mechanic program is committed to providing technical education to special needs students.

Explanatory Comment

Special needs students are those who are academically and/or economically disadvantaged, are physically and/or mentally handicapped, or are national origin minority students with limited English language skills.

The special needs requirements of the Georgia Board of Technical and Adult Education meet or exceed all relevant local, state, and federal legislation.

Special needs legislation includes, but is not limited to, mandates for auxiliary aids to students, removal of architectural and equipment barriers, and non-restrictive career counseling.

Evaluative Criteria

Special needs policies and operational procedures that comply with current local, state, and federal special needs legislation are implemented in the Heavy Equipment Mechanic program.

Students who are academically and/or economically disadvantaged are provided special services and assistance to enable them to succeed in the Heavy Equipment Mechanic program.

Students who have physical and/or mental impairments are provided special services and assistance to enable them to succeed in the Heavy Equipment Mechanic program.

Students who are national origin minority students with limited English language skills are provided special services and assistance to enable them to succeed in the Heavy Equipment Mechanic program.

Heavy Equipment Mechanic program faculty are prepared, through staff development education, to provide assistance for students with special needs.

HEAVY EQUIPMENT MECHANIC

All special needs personnel meet Georgia Board of Technical and Adult Education certification requirements.

Course objectives within the Heavy Equipment Mechanic program are utilized as the basis for developing an Individualized Education Program (IEP) for each handicapped student under 21 years of age enrolled in the program.

Standard Number:
56-11-01

HEAVY EQUIPMENT MECHANIC

EQUITY
(Commitment)

Standard Statement

The Heavy Equipment Mechanic program affords equal access and opportunities to all qualified students and staff.

Explanatory Comment

Equal access and equal opportunity refer to the prohibition of discrimination on the basis of race, color, national origin, religion, sex, age, or handicapping condition in educational programs, activities, and employment.

The equal access and equal opportunity requirements of the Georgia Board of Technical and Adult Education meet or exceed all relevant state and federal legislation.

Equal access and equal opportunity legislation includes, but is not limited to, mandates for: equitable admissions practices, counseling, employment, grievance procedures, and leave; nondiscriminatory recruitment and promotional materials; and public notification of nondiscrimination.

Evaluative Criteria

The nondiscrimination commitment of the Heavy Equipment Mechanic program complies with current Georgia Board of Technical and Adult Education policy and state and federal law.

A written institutional policy that ensures equal access to all qualified students who can safely benefit from instructional services regardless of race, color, national origin, religion, sex, age, or handicapping condition is implemented in the Heavy Equipment Mechanic program.

HEAVY EQUIPMENT MECHANIC

HEALTH AND SAFETY
(Commitment)

Standard Statement

The Heavy Equipment Mechanic program provides a safe and healthy environment for students and staff.

Explanatory Comment

References for proper health and safety conditions, equipment, practices, and procedures are available in Georgia Board of Technical and Adult Education policy and local, state, and federal law. Emergency and disaster plans, accident reports, and fire drill procedures are outlined in information from the State Fire Marshall's Office, the Civil Defense Division, and the Georgia Department of Human Resources.

Health and safety facility and equipment provisions required by the Georgia Board of Technical and Adult Education meet or exceed appropriate local, state, and federal law.

Evaluative Criteria

The physical facility, furnishings, equipment, supplies, and practices of the Heavy Equipment Mechanic program meet or exceed appropriate local, state, and federal health and safety standards.

Proper health and safety practices are developed, implemented, and integrated into the Heavy Equipment Mechanic program.

The Georgia Board of Technical and Adult Education does not discriminate on the basis of age, sex, race, color, religion, national origin, or handicap in its educational programs, activities, or employment policies.